UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alexandria, Virginia 22313-1450 www.emplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/598,970	09/15/2006	Lynn Choi	1751-418	2730	
6449 75500 (2008/2010) RÖTHWELL, FIGG, ERNST & MANBECK, P.C. 1425 K STREET, N.W. SUITE 800 WASHINGTON, DC 20005			EXAM	EXAMINER	
			PARTHASARATHY, PRAMILA		
			ART UNIT	PAPER NUMBER	
			2436		
			NOTIFICATION DATE	DELIVERY MODE	
			02/03/2010	ELECTRONIC	

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTO-PAT-Email@rfem.com

## Application No. Applicant(s) 10/598,970 CHOI ET AL. Office Action Summary Examiner Art Unit PRAMILA PARTHASARATHY 2436 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 04 September 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 9-11.13-15.17 and 18 is/are rejected. 7) Claim(s) 12 and 16 is/are objected to. 8) Claim(s) 1-8 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.

Notice of Draftsperson's Patent Drawing Review (PTO-948)
Minformation Disclosure Statements (PTO/SB/06)

Paper No(s)/Mail Date 9/15/2006.

5) Notice of Informal Patent Application

6) Other:

Art Unit: 2436

#### DETAILED ACTION

#### Flection/Restrictions

 Applicant's election without traverse of claims 9 – 18 in the reply filed on 9/4/2009 is acknowledged.

## Priority

 Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

#### Information Disclosure Statement

3. An initialed and dated copy of Applicant's IDS form 1449 is attached to the Office action.

## Claim Rejections - 35 USC § 112

The following is a guotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 9 – 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Independent claims 9 and 13 recite "recovering an operation state of a processor from a buffer overflow attack ...", however do not show how that recovering is achieved. Dependent claims are rejected by the virtue of their dependency from the above rejected parent claims.

Examiner suggests amending the independent claims with the subject matter that is disclosed in dependent claim 12 and/or 16.

Application/Control Number: 10/598,970 Page 3

Art Unit: 2436

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filled in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- Claims 9 18 are rejected under 35 U.S.C. 102(e) as being anticipated by Johnson et al. (Publication 2003/0172293).
- 6. As per Claims 9 and 13, Johnson teaches "(a) detecting whether a buffer overflow attack is made on any write operation while storing write operations that are potential targets of buffer overflow attacks in a predetermined location instead of an original destination to store write operations (Summary and paragraph [0048 0049]); (b) storing the contents stored in the predetermined location at a predetermined interval in the original destination for storing write operations if no buffer overflow attack is detected and discarding unsafe write operations subsequent to a buffer overflow attack if a buffer overflow attack is detected (paragraph [0049 0051]); and (c) ignoring the unsafe write operations subsequent to the buffer overflow attack if a buffer overflow attack is detected (paragraph [0050 0051])".
- 7. As per Claims 10 and 14, Johnson teaches "wherein, if a buffer overflow attack is detected, write operations stored before the buffer overflow attack is made are stored in the original destination for storing the write operations (paragraph [0053])".

8. As per Claims 11 and 15, Johnson teaches "if there are second sets of consecutive write operations in contiguous regions of the original destination for storing write operations, the write operations are stored in the predetermined location, and otherwise the write operations are written to the original destination (paragraph [0049])".

 As per Claims 17 and 18, Johnson teaches "wherein the predetermined storage unit in which data are stored by the storing unit is a FIFO (first-in-first-out) device (paragraph [0053])".

### Allowable Subject Matter

10. Claims 12 and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### Conclusion

Examiner's Note: Please note change of Examiner with this Application.

Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant, in preparing the responses, to fully consider the references in entirety as

Application/Control Number: 10/598,970 Art Unit: 2436

potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO Form 892.

Applicant is urged to consider the references. However, the references should be evaluated by what they suggest to one versed in the art, rather than by their specific disclosure. If applicants are aware of any better prior art than those are cited, they are required to bring the prior art to the attention of the examiner.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PRAMILA PARTHASARATHY whose telephone number is (571)272-3866. The examiner can normally be reached on 8:00a.m. to 5:00p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami can be reached on 571-272-4195. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/598,970

Page 6

Art Unit: 2436

/Pramila Parthasarathy/ Primary Examiner, Art Unit 2436